

SONIN, S.D., prof.; CHERNYAK, I.L., kand. tekhn. nauk; MYASNIKOV,
Yu.G., inzh.

Control of ground swelling by means of underground
explosion charges. Ugol' 38 no.12:38-39 '63.

(MIRA 17:5)

1. Moskovskiy institut radioelektroniki i gornoj
elektromekhaniki.

L 36137-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) IJP(c)
ACC NR: AT6016763 JD/HM/RW(N) SOURCE CODE: UR/2776/65/000/042/0070/0076 51
54

AUTHOR: Meandrov, L. V.; Bykov, A. A.; Shilkin, Yu. V.; Sonin, S. I.; Dub', V. V.; Chernyshov, O. G.

ORG: none

TITLE: Rolling of nickel-steel-nickel sandwich strip

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 42, 1965. Proizvodstvo bimetallov (Production of bimetals). 70-76

ELECTRONIC EQUIPMENT,
TOPIC TAGS: ROLLING mill, bimetal, nickel, steel, metal rolling / "450" ROLLING mill

ABSTRACT: The use of laminated Ni-steel-Ni strip would make it possible to save nickel in the production of Ni strip designed for the fabrication of various electronic instruments. Accordingly, the authors describe the pack-rolling method they developed for this purpose. Ni sheets measuring 5x195x295 mm and St.3 steel sheets measuring 25x200x300 mm, were welded together, heated to 1250°C and rolled in a "450" sheet mill into 3 mm thick bimetal (7 roll passes). The resulting product was pickled and cut into 90 mm wide strips which were cold-rolled in a four-high stand to a thickness of 0.2 mm. The mechanical properties of the finished 0.2 mm thick strip were found to be satisfactory. Subsequent pilot-industrial production of this strip revealed some shortcomings in the strength of adhesion between the sheets; this was remedied by changing

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the design of the welding groove to a swallowtail shape. As ultimately worked out under industrial conditions, the flowsheet for the production of this strip is as follows: a) preparation and assembling of bimetal sandwich strip; b) hot rolling of strip to 3.0-3.5 mm; c) pickling; d) cold rolling to thickness of 1.8-2.0 mm; e) cutting to 200 mm width; f) bright annealing; g) cold rolling to 0.60 mm; h) bright annealing; i) cold rolling to 0.1, 0.2 and 0.3 mm; j) cutting, heat treatment and finishing of strip. Tests of components of electronic apparatus manufactured from Ni-steel-Ni sandwich strip produced positive results. Orig. art. has: 3 figures, 3 tables.

24

SUB CODE: 13, 11, 09/ SUBM DATE: none/ ORIG REF: 001

Joining of Dissimilar Metals 16

Card 2/2 116

SUNIN, V. inshener.

The UEB-3,6 boring unit. Nekh.vol. 25 no.6:19 Je '57 (MIRA 10:?)
(Coal mining machinery)

SONIN, V.

Auditing departments in administrations and ministries are indispensable.
Sov. torg. 36 no.3:40-41 Mr '63. (MIRA 16:3)

1. Starshiy bukhgalter-revizor Cheboksarskoy torgovloy organizatsii
po torgovle pishcheproductami.
(Commerce—Auditing and inspection)

SOV/178-58-7-2/24

6(7)

AUTHOR: Sonin, V., Colonel, Engineer

TITLE: Compact Unit Design of Communication Equipment (Blochnoye postroyeniye apparatury svyazi)

PERIODICAL: Voyennyy svyazist, 1958, Nr 7, pp 8 - 10 (USSR)

ABSTRACT: The author explains the advantages of building communication equipment in small units, which may be easily replaced for inspection or repair. As an example, he cites the telephone commutator units which may be used in different combinations. The author then describes American telephone equipment, especially the AN/TCC-7. There is 1 photograph.

Card 1/1

SONIN, Vladimir Konstantinovich; SONIN, Yevgeniy Konstantinovich;
SCROLEVSKIY, A.G., red.; BUL'DYAYEV, N.A., tekhn. red.

[Apparatus for visual tuning of radio amateur equipment]
Pribory dlja vizual'noi nastroiki radioliubitelskoi ap-
paratury. Moskva, Gosenergoizdat, 1963. 69 p. (Massovaja
radiobiblioteka, no.483) (MIRA 16:11)
(Radio--Equipment and supplies)

SONIN, V.S., inzh.

Statistical method of determining the service life of traction
motor insulation. Vest. TSNII MPS 20 no.5:12-17 '62.
(MIRA 15:8)

1. Ural'skoye otdeleniya Vsesoyuznogo nauchno-issledovatel'skogo
instituta zheleznodorozhnogo transporta Ministerstva putey
soobshcheniya, Sverdlovsk.
(Electric locomotives) (Electric insulators and insulation)

SONIN, V.S., inzh.

Determining the overhaul life of locomotive units and assemblies.
Vest. TSNII MPS 22 no.3:33-36 '63. (MIRA 16:7)

1. Ural'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo
instituta zhelezodorozhного transporta Ministerstva putey
soobshcheniya, Sverdlovsk.
(Locomotives--Testing)

SONIN, V.S., inzh.

Evaluating the operational reliability of electric locomotives. Trudy
TSNII MPS no.266,37-64 '63. (MIRA 17:2)

SOBOLEV, V.M., kand. tekhn. nauk; SONIN, V.S.; DURANDIN, G.B., inzh.

Selecting the optimum service life of cables for electric
locomotives. Vest. TSNII MPS 24 no.8:29 '65.
(MIRA 19:1)

ISAYEV, V. K. (Moskva); SONIN, V. V. (Moskva)

Concerning a certain nonlinear problem on optimum control. Avtom.
i telem. 23 no.9:1117-1129 S '62. (MIRA 15:10)

(Automatic control) (Guided missiles)

SONIN, V. V., ISAYEV, V. K., and KURYANOV, A. I.,

"On the application of the maximum principle to rocket flight problems"

report to be submitted for the 14th Congress Intl. Astronautics Federation,
Paris, France, 25 Sep-1 Oct 63

ISAYEV, V.K. (Moskva); SONIN, V.V. (Moskva)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420001-0

value problems. Zbir. vych. mat i mat fiz. 3-4. 1963. 1963.

(MIRA 17:1)

DAVIDSON, B.Kh.; ISAYEV, V.K.; SONIN, V.V. (Moscow):

"Optimum regimes of motion of a variable mass particle with limited power along nearly circular orbits."

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

KUZMAK, G. Ye.; LAVRENKO, N. Y.; ISAYEV, V. K.; SONIN, V. V.

"The linearized theory of optimal multi-impulsive travers. The problem about
optimal rocket flight."

report submitted for 15th Intl Astronautical Cong, Warsaw, 7-12 Sep 64.

Comm for Space Research USSR

1.8784-65 FSS-2/EWT(1)/EPA(b)/FS(v)-3/ENG(v)/EWA(d)/EWA(1) Po-4/Po-5/Pq-4/Pg-4
IJP(c)/ESD(dp) GW S/0293/64/002/004/0553/0566
ACCESSION NR: AP4043493

AUTHOR: Isayev, V. K.; Sonin, V. V.; Davidson, B. Kh.

TITLE: Optimum conditions for the motion of a point of a variable mass with limited power in a homogeneous central field

SOURCE: Kosmicheskiye issledovaniya, v. 2, no. 4, 1964, 553-566

TOPIC TAGS: optimum motion condition, homogeneous central field, variable mass body, Pontryagin maximum principle, p trajectory, optimum exhaust velocity, optimum thrust

ABSTRACT: This article is a continuation of the authors' studies (Avtomatika i telemekhanika, v. 22, no. 8, 1961 and v. 23, no. 9, 1962) concerning the properties of an optimum motion of a body of a variable mass in a central, homogeneous gravitational field. The qualitative study of the structure of the optimum control of the thrust N and the exhaust velocity c is carried out on the basis of Pontryagin's maximum principle and under the assumption that these control parameters satisfy the inequalities

$$0 \leq N \leq N_{\max}$$

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O
(1)

$$0 < c_{\min} \leq c \leq c_{\max}$$

Depending on the type of integral curve (derived from the optimum motion equations) called a p-trajectory, which can be represented by either an ellipse, circle, or two coinciding straight lines, the character of the programming of the thrust

$$u_i = N/N_{\max}$$

and the exhaust velocity c is investigated. In the case of elliptic p-trajectories, the trajectory of motion is divided into two parts: a) the acceleration trajectory with continuous control of the thrust force b) and the trajectory with discontinuous (pulse) control of the thrust force, in which the problem of optimum programming of the exhaust velocity $c(\tau)$ is analyzed. A similar analysis of the optimum programming is made for other types of p-trajectories. The optimum motion of a body of a variable mass is analyzed when the first of the inequalities of (1) holds, but there are no constraints upon the exhaust velocity. The system of equations describing the optimum motion is written, which decomposes into the system of pure motion and the system of the expenditure of mass. Using relations derived from

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the solution of the first system for the solution of the flight problem with the minimum expenditure of mass, the boundary-value problem is formulated. The analytic solution obtained for this problem makes it possible to synthesize the optimum control for this case. Orig. art. has: 68 formulas.

ASSOCIATION: none

SUBMITTED: 30May63 ATD PRESS: 3100 ENCL: 00

SUB CODE: MA, SV NO REF Sov: 006 OTHER: 012

Card 3/3

L 37690-65 EWP(m)/EWP(v)/EWT(d)/EWT(l)/FS(v)-3/EEC(a)/EEC(j)/EEC(r)/EWA(d) Pe-5/
 Pg-4/Po-4/Pq-4 IJP(c) GW

S/0208/65/005/002/0252/0261

ACCESSION NR: AP5009391

38

AUTHOR: Isayev, V. K. (Moscow); Sonin, V. V. (Moscow)

13

TITLE: Computational aspects of the problem of optimal flight as a boundary-value problem

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 5, no. 2,
 1965, 252-261

TOPIC TAGS: flight mechanics, optimal flight, boundary-value problem, modified
 Newton method, Cauchy problem

ABSTRACT: The modified Newton method for solving boundary-value problems for ordinary differential equations developed by the authors (Zhurnal. vych. mat i matem., v. 3, no. 6, 1963, 1114-1116) is applied to solving the problem of the optimal motion of a point of variable mass $M(t)$ in a central gravitational field with the minimal expenditure of power. Those variations of the power $u_1(t)$, of the thrust velocity $c(t)$ and of the direction of the thrust vector $\phi(t)$ are sought which take the mass $M(t)$ from the initial position to the terminal position in a finite time $t = T$ under the condition that the expenditure of the mass will be minimal. The maximum principle of Pontryagin is applied to the solution of the defined problem. The vari-

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ational problem is reduced to solving a boundary-value problem for the system of equations. The algorithm for solving the boundry value problem by the modified Newton method is presented. The peculiarities of realizing this algorithm on an electronic computer are analyzed. An example of solving a boundary-value problem for concrete flight parameters and boundary conditions is presented. Orig. art. has:
4 figures and 10 formulas

[LK]

ASSOCIATION: none

SUBMITTED: 24Feb64

ENCL: 00

SUB CODE: NG, MA

NO REF Sov: 003

OTHER: 000

ATD PRESS: 3218

Card 2/2 mB

VANEYEV, Vladimir Ivanovich; SONIN, Yevgeniy Konstantinovich;
IENYUTIN, V.V., red.; PAVLOVA, T.I., tekhn.red.

[Electronic flash lamps] Elektronnye lampy-vspyshki. Moskva,
Gos.energ.izd-vo, 1959. 47 p. (Massovaya radiobiblioteka, no.
356). (MIRA 13:3)

(Photography--Equipment and supplies)

PHASE I BOOK EXPLOITATION

SOV/3530

Sonin, Yevgeniy Konstantinovich

Elektronnyye pribory dlya fotopechati (Electronic Devices for Photo Printing)
Moscow, Gosenergoizdat, 1959. 63 p. (Series: Massovaya radiobiblioteka,
vyp. 348) 40,000 copies printed.

Ed.: V. V. Yenyutin; Tech. Ed.: P. M Asanov; Editorial Board of Series:
A. I. Berg, F. I. Burdeyny, V. A. Burlyand, V. I. Vaneyev, Ye. N. Genishta,
I. S. Dzhigit, A. M. Kanayeva, E. T. Krenkel', A. A. Kulikovskiy, A. D.
Smirnov, F. I. Tarasov, and V. I. Shamshur.

PURPOSE: This booklet is intended for radio and photo amateurs.

COVERAGE: The author describes the principles of operation and the construction
of electronic devices which facilitate tedious and time-consuming work connected
with the processing of photographic material, particularly of multilayer color
film. Two types of devices are described, electronic time relays and electronic
exposure meters. The author thanks radio amateurs M. S. Medvedev, L. A. Poly-
anskiy, V. A. Vasil'yev, and others. There are no references.

Card-1/4

PHASE I BOOK EXPLOITATION

SOV/5665

Sonin, Yevgeniy Konstantinovich

Portativnyy magnitofon na tranzistorakh (Transistorized Portable Tape Recorder)
Moscow, Gosenergoizdat, 1961. 30 p. (Series: Massovaya radiobiblioteka,
vyp. 392) 80,000 copies printed.

Editorial Board: A. I. Berg, F. I. Burdeyny, V. A. Burlyand, V. I. Vaneyev,
Ye. N. Genishta, I. S. Dzhigit, A. M. Kanayeva, E. T. Krenkel', A. A. Kulikovskiy,
A. D. Smirnov, F. I. Tarasov, and V. I. Shamshur; Ed.: V. M. Ivanov;
Tech. Ed.: K. P. Voronin.

PURPOSE: This booklet is intended for electronic hobbyists interested in constructing a portable tape recorder.

COVERAGE: The booklet describes the circuit and design of a homemade portable tape recorder with a transistorized amplifier, which is intended to record sounds under field conditions. No personalities are mentioned. There are no references.

Card 1/2

LOZHNIKOV, Anatoliy Petrovich; SONIN, Yevgeniy Konstantinovich;
GUMELYA, Ye.B., red.; BORUNOV, N.I., tekhn. red.

[Cascode amplifiers] Kaskodnye usiliteli. Moskva, Gos. energ.
izd-vo, 1961. 70 p. (Massovaia radiobiblioteka, no.423)
(MIRA 15:4)
(Amplifiers, Electron-tube)

BURLYAND, V.A.; YENYUTIN, Ye.A.; ZHEREBTSOV, I.P.; LEVITIN, Ye.A.;
LOMANOVICH, V.A.; NEFEDOV, A.M.; SOBOLEVSKIY, A.G.; SONIN,
Ye.K.; GRIGOR'YEVA, A.I., red.; KARYAKINA, M.S., tekhn. red.

[A book for rural radio amateurs] Kniga sel'skogo radioliubitelia.
Pod obshchei red. V.A.Berlianda. Moskva, Izd-vo
DOSAAF, 1961. 511 p. (MIRA 15:3)

(Radio)

SONIN, Vladimir Konstantinovich; SONIN, Yevgeniy Konstantinovich;
SROLEVSKIY, A.G., red.; BUL'DYAYEV, N.A., tekhn. red.

[Apparatus for visual tuning of radio amateur equipment]
Pribory dlja vizual'noi nastroiki radioliubitel'skoi ap-
paratury. Moskva, Gosenergoizdat, 1963. 69 p. (Massovaja
radiobiblioteka, no.483) (MIRA 16:11)
(Radio--Equipment and supplies)

LOZHNIKOV, Anatoliy Petrovich; SONIN, Yevgeniy Konstantinovich;
POPOV, P.A., red.

[Cascade anode amplifiers] Kaskodnye usiliteli. Izd.2^e, dop.
Moskva, Energiia, 1964. 126 p. (MIRA 18:12)

SONIN, Yu.P., inzh.

Valve type repulsion motor. Trudy Ural. elektromekh. inst. inzh.
zhel. dor. transp. no.5:56-66 '62. (MIRA 17:8)

ROZENTSVAYO, P.E.; SONINA, A.D.

Studying the methods of prescription writing in Molotov and Molotov Province pharmacies. Apt.delo 5 no.6:3-7 N-D '56. (MIRA 10:1)

1. Iz Molotovskogo farmatsevticheskogo instituta.
(MOLOTOV PROVINCE--PRESCRIPTION WRITING)

SONINA, A.K.

Chalcids as parasites of injuricous coccids of Uzbekistan.
Uzb. biol. zhur. 6 no.3:58-65 '62. (MIRA 15:6)

1. Gosudarstvennaya inspeksiya po karantinu sel'skokhozyay-stvennykh rasteniy UzSSR.

(UZBEKISTAN--PARASITES--SCALE INSECTS)
(UZBEKISTAN--CHALCID FLIES)

SONINA, A.K.

Combined chemical and biological methods for controlling the
Comstock mealybug. Zashch. rast. ot vred. i bol. 7 no.9:49
S '62. (MIRA 16:8)

1. Starshiy agronom Biologicheskoy laboratorii Uzbekskoy
karantinnoy inspeksi. (Uzbekistan—Mealybugs—Extermination)

SONINA, I.

Monetary income of the population, retail prices, and cost of
living in the German Democratic Republic and West Germany.

Biul. nauch. inform.: trud i zar. plata 4 no.3:58-62 '61.
(MIRA 14:3)

(Germany, East—Cost and standard of living)
(Germany, West—Cost and standard of living)

SONINA, I.

Concern of the government of the German Democratic Republic for
the welfare of young workers. Biul. nauch. inform.: trud i zar.
plata 4 no.10:50-54 '61. (MIRA 14:10)
(Germany, East—Youth)

SONINA, I.

Increase in the employment of women in the German Democratic Republic.
Biul. nauch. inform.: trud i zar. plata 4 no.11:64-67 '61.
(MIR 14:12)

(Germany, East--Women--Employment)

SONINA, K. I., Cand Agr Sci -- (diss) "Action of liming of soils in crop rotations with perennial grasses in dependence on the dosage and method of lime application." Gorki, 1960. 14 pp; (Ministry of Agriculture Belorussian SSR, Belorussian Order of Labor Red Banner Agricultural Academy); 150 copies; price not given; (KL, 52-60, 121)

SONINA, L.M., inzh.; SHADRIN, V.I., inzh.

Line attachment to a VRT-53 device. Elek.sta. 33 no.2:92-93 F '62.
(MIRA 15:3)
(Telephone)(Electric lines)

KOROTKOV, Georgiy Sergeyevich; SMIRNOV, Vladimir Alekseyevich;
SONINA, Leonida Matveyevna; SHALYT, G.M., red.; BUL'DYAYEV,
N.A., tekhn. red.

[Experience in the use of complex automatic and remote
control in a district of a municipal electric power distri-
bution network] Cpyt kompleksnoi avtomatizatsii i telemekha-
nizatsii raiona gorodskoi elektricheskoi seti. Moskva, Gos-
energoizdat, 1963. 119 p. (MIRA 16:6)
(Electric power distribution)

SONINA, M.A.

Cod of the White Sea. Mat. po kompl.izuch. Bel.mor. no.1:230-242
'57. (MLRA 10:8)

1.Polyarnyy nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii.
(White Sea--Codfish)

SONINA, M.A.

*Coastal fisheries of Murman in 1953-1954. Trudy Murm. biol. sta.
3:159-168 '57.* (MIRA 11:2)
(Murman Coast--Fisheries)

SONINA, R.S.

Reflexes on arterial pressure produced by the stimulation of the receptors and efferent intestinal fibers with synthetic bradykinin.
Trudy Inst.norm.i pat.fiziol. AMN SSSR 7:94-95 '64.

(MIRA 18:6)

1. Laboratoriya biofiziki serdechno-sosudistoy sistemy (zav. -
doktor med.nauk V.M.Khayutin) Instituta normal'noy i patologicheskoy
fiziologii AMN SSSR.

SONIS, L.

Electronic device for measuring the deformation of loaded mechanisms.
V pom. radioliub. no.11:65-72 '61. (MIRA 15:6)
(Tensiometers)

SONIS, L.G.; VOROB'OV, V.M.

Programming numeral metering device. Ratsionalizatsiia 13
no.8: 18 '63.

1. Sverdlovski politekhnicheski institut.

SONJE, A.

SONJE, A. Porec, the pearl of the western Istrian littoral

P. 8

THROUGH YUGOSLAVIA

Col. 4, no. 1, Mar. 1955

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), LC, Vol. 4, no. 9,
Sept. 1955, Uncl.

SONJE, A.

SONJE, A. Pula; in English

p. 9

THROUGH YUGOSLAVIA

Vol. 4, no. 1, Mar. 1955

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), LC, Vol. 4, no. 9,
Sept. 1955, Uncl.

SONJE, A

SONJE, A. Platak Mountain, a center of excursions and winter sports.

p. 12

THROUGH YUGOSLAVIA

Vol. 4, no. 1, Mar. 1955

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), LC, Vol. 4, no. 9
Sept. 1955, Uncl.

SONJE, A.

SONJE, A. Mali Losinj.

p. 14
THROUGH YUGOSLAVIA
Vol. 4, no. 1, Mar. 1955

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), LC, Vol. 4, no. 9
Sept. 1955, Uncl.

SO: Monthly Index of East European accession (EEAI) IC Vol. 7, No. 5, 1958

P. 8. (ZEZNICAR) (Praha, Czechoslovakia) No. 1, Jan. 1958

Increasing the capacity of railroad traffic.

SOKA, J.

CHYTIL, F., KANDRAC, M., SOIKA, O., SONKA, J., CHARVAT, J.

Studies on adreno-corticotrophic hormone. Sborn. lek. 52:2,
22 Apr. 50. p. 51-90

1. Of the Third Internal Clinic of Charles University (Head--
Prof. Josef Charvat, M. D.).

CLIL 19, 5, Nov., 1950

SONKA, J.; SCHEJBALOVA, L.

Elimination of epithelia cells of the urinary tract. Cas.lek.cesk.
89 no.25:724-726 23 June 50. (CLML 19:4)

1. Of the Third Internal Clinic (Head--Prof. J.Charvat, M.D.)

SONKA, J.

Treatment of liver diseases with DOCA and other adrenocortical
preparations. Prakt. lek. Praha 31 no. 24:738-739 20 Dec. 1951.
(CLML 21:3)

1. Of the Third Internal Clinic (Head--Prof. J. Charva, M. D.)
of Charles University.

CHYTIL, F.; SONKA, J.

Determination of sodium and potassium by means of flame photometry.
Cas.lek.cesk. 90 no.9:284-285 2 Mar 1951. (CLML 20:7)

1. Of the Third Internal Clinic of Charles University (Head--Prof.
J. Charvat, M.D.).

SONKA, J.; PENCEV, J.

Modifications of blood sugar level following ACTH. Cas.lek.cesk. 90
no.16:486-489 20 Apr 51. (CML 20:8)

1. Of the Biochemical Laboratories of the Third Internal Clinic
(Head—Prof. J. Charvat).

CA

HP

Creatinine estimation in blood serum. J. V. Kofler and
J. Šunka (Charles Univ., Prague). *Biochim. et Biophys.*
Acta B, 86-91(1952)(in English).—Serum or plasma, dilut.
with an equal vol. of H₂O, is deproteinized by addn. of Hg-
SO₄ and Na₂WO₄, centrifuged, add. C₄(NO₂)₆ soln. added to
destroy MeCOCH₂H, neutralized with NaOH after 10 min.,
pink ppt. removed by centrifugation, picric acid added, and
the soln. assayed photometrically at 423 m μ . Serum values
found vary from 0.3 to 0.6 mg. % apparent creatinine
J. P. Duncy

SONKA, J., MUDr; FRANCLOVA, J.

Modification of the anthrone method of blood protein determination.

Cas.lek.cesk. 91 no.10:303 7 Mar 52.

(BLOOD PROTEINS, determination,
anthrone method)

(ANTHRACENE, derivatives,
anthrone, determ. of blood proteins)

Sonka, Jiří

✓ Metabolic changes after cortisone administration. Josef Charváti, JH Šonka, Michal Kaudráč, and František Chytíř.

Casopis Lékařů Českých 91, 279-82 (1952).—An old woman suffering from osteo-arthrosis was given 100 mg. Cortone acetate (Merck) intramuscularly daily for 20 consecutive days. The increased elimination of urinary N was accompanied by some loss of inorg. as well as org. S, mainly of cysteine. Blood-plasma levels of cysteine and methionine rose under cortisone treatment. Marked creatinuria developed, while the elimination of creatinine tended to fall. Blood-sugar levels did not change. A slight hyperglycemia was stimulated by the increase of pyruvic acid content in blood. The injected cortisone was partly eliminated in the 11-ary steroid urinary fraction, and partly converted in the body to ketonic and to neutral 17-keto steroids.
Otto E. Lobstein

CHARVAT, Josef; SONKA, Jiri; KANDRAC, Michal; CHYTIL, Frantisek

Metabolic changes after cortisone. Cas.lek.cesk. 91 no.13:379-382
28 Mar 52.

1. Z III. interni kliniky lekarske fakulty Karlovy university v
Praze. Prednosta: prof. dr. Josef Charvat.
(METABOLISM, effect of drugs on,
cortisone, in ther. of osteoarthritis)
(CORTISONE, effects,
metab. changes in ther. of osteoarthritis)

CHARVAT, Josef; SONKA, Jiri; CHYTIL, Frantisek

Effect of ACTH on hyperthyreosis. Cas. lek. cesk. 91 no.24-25:
707-709 20 June 52.

1. (III, interni klinika, prof. Dr. J. Charvat) a Milos Cihar,
(Ustredni endokrinologicky ustav, doc. dr. K. Silink).

(HYPERTHYROIDISM, therapy,

ACTH)

(ACTH, therapeutic use,
hyperthyroidism)

CHARVAT, Josef; CHYTIL, František; SONKA, Jiří

Effect of a single injection of physiological solution and of cortisone on metabolism. Cas.lék.cesk. 91 no.30:879-884 25 July 52.

1. Z III. interní kliniky lekarské fakulty Karlovy univerzity v Praze. Prednosta prof. dr. Josef Charvat.

(ISOTONIC SOLUTION) effects,

on metab., comparison with cortisone)

(CORTISONIC, effects,

on metab., comparison with physiol. solution)

(METABOLISM,

eff. of cortisone & physiol. solutions)

SONKA, Jiri; KANTUREK, Vit; PACOVSKY, Vladimir

Problem of determination of true creatinine and its clinical application. Cas.lek.cesk. 91 no.39:1128-1130 26 Sept 52.

1. Z III. interni kliniky lekarske fakulty K.U. v Praze, prednosta prof. dr. Josef Charvat.

(CREATININE, determination,
in blood & urine)

(BLOOD,
creatinine, determ.)

(URINE,
creatinine, determ.)

BLEHA, O.; PACOVAKY, V.; SONKA, J.

Critical considerations on the determination of volume of extra-cellular fluid with inulin. Cas.lek.cesk. 91 no.41:1186-1189 10 Oct 52.

1. III. intern klinika, prednosta prof. dr. J.Charvat.
(INULIN,
determ. of extracellular fluid volume)
(BODY FLUIDS,
extracellular fluid, volume determ., inulin test)

PIHAR, Otomar; SONKA, Jiri

Clinical determination of succinates in serum. Cas. lek. cesk.
91 no. 52:1554-1555 26 Dec 2.

1. Z Ustredniho endokrinologickeho ustavu, prednosta doc. dr.
K. Silink, a z III interni kliniky K. U., prednosta prof. dr.
J. Charvat.)

(BLOOD,

succinates, determ.)

(SUCCINATES, in blood,

determ.)

SONKA, J.; KANTUREK, V.; PACOVSKY, V.

Certain problems of detecting creatine in the urine. Chekh.
fiziol.2 no.2:222-224 '53. (MIRA 7:2)

1. III-'ya klinika vnutrennikh bolezney meditsinskogo fakul'teta
universiteta im. Karla IV, Praha.
(Urine--Analysis and pathology) (Alkaloids)

SONKA, JIRI

Metabolism of pentoses and of glucocorticoids. JIH
Šouka, Vít Kantírek, and Vladimír Pacovský (Karlovo
Univ., Praha, Czech.). *Casopis Lékařů Českých* 92, 68-
71 (1953).—Urine was analyzed by aid of paper-partition
chromatography, prior to and after treatment with adreno-
corticotropic hormone (I) or cortisone (II); the solvent used
was BuOH and AcOH. Normal urine contains ribose (III)
and arabinose (IV); the reaction for xylose was not too
clear; presumably there is a trace of it present. After
doses of I or II the III and IV in the urine increase; so does
the glucose (V), whereas the ketone bodies decrease. There
are 5 possible explanations for this: (a) ribonucleic acids in
the cells break down, (b) the TGA of the pentoses decreases,
(c) glucuronic acid is produced in too large amounts, (d) V
is oxidized and decarboxylated to pentose, and (e) syntheses
of pentoses from 2- and 3-C compds. take place. The (d)
is the more probable one. Werner Jacobson

SONKA, J.; KANTUREK, V.; PACOVSKY, V.

Theoretical principle of clearance of endogenous creatinine. Cas.
lek. cesk. 92 no. 45:1227-1232 6 Nov 1953. (CIML 25:4)

1. Of the Third Internal Clinic (Head--Prof. J. Charvat, M.D.) of
Charles University, Prague.

SONKA, JIRI

Blood serum level of succinic acid in diseases of the liver and of the extrahepatic bile ducts. Zdenka Marešová, Otomar Píbar, and Jiri Sonka (Charles Univ., Prague, Czech.). *Lékařský časopis*, 1954, 61(1954).—Results of clinical studies with 45 patients are reported. A relation between the serum level of succinic acid (1) and the extent of damage to the liver parenchyma was ascertained. The level of 1 in diseases of extrahepatic bile ducts in a posthepatitis syndrome and in compensated cirrhoses of various etiologies did not exceed the value of 10 μ /0.1 ml. Values above this level prove various degrees of liver insufficiency from a minor grade of liver impairment to serious metabolic disorders. L. J. Urbánek

SONKA, Jiri; PECENY, Jaroslav

Respiratory quotient and fixation of CO₂. Lek. listy, Brno 9
no. 18:427-428 15 Sept 54.

1. III. vnitrní klinika K.U.
(CARBON DIOXIDE, metabolism,
fixation, relation to resp. quotient)
(METABOLISM, TISSUE,
carbon dioxide fixation, relation to resp. quotient)

PACOVSKY, V.; SONKA, J.

Notes on neurohumoral effect on glycosuria and its clinical importance. Bratisl. lek. listy 34 no.6:661-666 June 54.

1. Z III. interni kliniky lekarske fakulty Karlovy university,
prednosta prof. dr. J. Charvat.

(GLYCOSURIA, physiology

neurohumoral factors, clin. aspects.)

(CEREBRAL CORTEX, physiology

neurohumoral factors in glycosuria, clin. aspects.)

SONKA, J.; ZBUZEK, V.; KOSTIR, J.V.

Nonspecific Ehrlich's reaction. Sbor.lek. 56 no.5-6:126-133
June 54.

1. III. interni klinika KU., prednosta prof. Dr J.Charvat a
Biochemicky ustav matematicko-fysikalni fakulty KU., prednosta
doc. Dr J.V.Kostir.

(UROBILINOGEN, in urine,
determ., Ehrlich's reaction)

(URINE,
urobilinogen, determ., Ehrlich's reaction)

SONKA, J.

DVORAK, L.; SONKA, J. "Effect of Artificial Venostasis on Circulation." p. 44.
(Casopis Lekaru Ceskych. Vol. 93, no. 2, Jan. 1954. Praha).

East European Vol. 3, No. 6
SO: Monthly List of Acquisitions, Library of Congress, June 1953, Unclassified

KANTUREK, Vit., PACOVSKY, Vladimir; SONKA, Jiri

Specificity of Lloyd's reagent in determination of serum creatine.
Cas lek cz 93 no.16:435-436 Ap '54. (HEAL 3:7)

1. Z biochemickych laboratorií III. interní kliniky lekarské
fakulty UK v Praze, prednosta prof. Dr J. Charvat.

(BLOOD,

*creatin, determ., specificity of Lloyd's reagent)

(CRMATINE, in blood,

*determ., specificity of Lloyd's reagent)

(REAGENTS,

*Lloyd's reagent in determ. of blood creatine)

SONKA, JIRI

Specificity of the Lloyd reagent for the estimation of creatinine in serum. Vit Kanthirek, Vladimír Pacovský, and Jiří Šonka (III. interni klin., Prague). *Casopis Lekaru Českých* 60 (1951).—The Lloyd reagent, as used for the serum creatinine estn. of Bousnes and Tauský (*C.A.* 39, 38909), lacks specificity for it adsorbs various Jaffé-pos. keto acids, indole, hydantoin, glycocynamidine, various steroids, and pigments and as it does not adsorb creatinine quantitatively. Paper chromatography was used for the separ. of pyruvic acid, acetoacetic acid, cholesterol, and sugars (BuOH-AcOH mixt.), creatinine and hydantoin (pyridine 2, picoline 2, water 3 parts), creatinine and glycocynamidine (cresol satd. water 1 and isopropyl alc. 1 part).
Ivo M. Hais

DUBOVSKY, Jiri; SONKA, Jiri

Oxidative glycolysis in human erythrocytes. Cas. lek. cesk.
94 no. 38:1027-1030 16 Sept 55.

1. Biochemicke laboratoare III. interni kliniky, prednosta
akademik J. Charvat.

(ERYTHROCYTES,
oxidative glycolysis.)

(BLOOD SUGAR,
oxidative glycolysis by erythrocytes.)

✓ Human erythrocytes and metabolism of sedoheptulose in malignancy. Jiri Palek, Jiri Dubovsky, and Jiri Sanka
(Charles Univ., Prague). *Ceskoslov. onkol.*, 5, 295-303
(1950) (in English).—Erythrocytes of patients with gastro-intestinal cancer show enhanced formation of sedoheptulose from glucose by 4.3-10.2 mg. %. The authors suggest that the main pathway of glucose metabolism in this type of tumor is directed towards the oxidative cycle of glucose-6-phosphate and discuss the possible mechanism.
L. J. Urbánek

SONKA, J.

Pentose and glycide metabolism. Cesk. fysiol. 5 no.4:475-
483 1956.

1. III. Interni Klinika lekarske fakulty Karlovy University,
Praha.

(PENTOSES, metabolism,
relation to carbohydrate metab. (Cz))
(CARBOHYDRATES, metabolism,
relation to pentose metab. (Cz))

SONKA, J.

From the Russian for Dr. N. K. Richtmyer

Sbornik Chekhoslovatskikh Khim. Rabot
21 (5): 1352-1354; 2 figs.; 1956.

Colorimetric Determination of Heptuloses*

by

J. Sonka and M. Kucharova

(*Published earlier in the journal Chem. listy, 50: 388; 1956.)

(Biochemical Laboratory, 3d Clinic of Internal Diseases of Charles University, Prague)

(Article entered editorial office September 15, 1955).

Stockha

✓ 1300. Colorimetric determination of heptuloses.
J. Sonka and M. Kuchařová (Biochem. Lab., I.I.I. Inst.
Fizikální chemie, Charles' Univ., Prague, Czechoslovakia).
Chem. Listy, 1958, **50** (3), 383-390.--Heptulose
reacts with orcinol, dissolved in trichloroacetic acid
and butanol, to give a coloration that has an absorption
maximum at 600 m μ . This reaction was used
for the determination of heptuloses in blood, blood
serum and erythrocytes (in concn. of 1 mg-%), but
not in urine. *Procedure*--Mix 3 ml of reagent with
2 ml of deproteinized sample, and heat in a closed
test-tube (3 cm x 18 cm) for 1 hr. on a boiling-water
bath; cool, and measure the extinction at 620 m μ .
Reagent--Dissolve trichloroacetic acid (80 g) in
water, add orcinol (0.5 g) and dilute to 100 ml.
If stored in a cool place in the dark the reagent is
stable for a week. J. Žíka

2

Met

SONKA, JIRI

✓ Metabolism of sedoheptulose in human erythrocytes.
Jiri Palek and Jiri Šonka (Charles Univ., Prague). *Vnútř. Lékařstv.* 3, 29-31 (1957). — Incubation of erythrocytes
with D-glucose (I) in phosphate buffer (pH 7.4) brought
about an increase of 87% in sedoheptulose (III). In the pres-
ence of methylene blue the increase was 69%. When
D-ribose was used instead of I the increase in II was not
significant. It is suggested that there exists an oxidation
cycle of glucose-6-phosphate in erythrocytes. The existing
methods of detg. II are discussed. L. J. Urbanek

EXCERPTA MEDICA Sec. 6 Vol. 11/9 Sept. 57

ŠONKA J.

5445. ŠONKA J. and PALEK J. *Metabolismus sedoheptulosy u klinických syndromů.
Metabolism of the sedoheptulose in clinical syndromes

VNITŘ. LÉK. 1957, 3/2 (134-148) Graphs 3 Tables 11

The formation of sedoheptulose (as an intermediate of the oxidative cycle of glucose-6-phosphate) by erythrocytes during their incubation with glucose or glucose and methylene blue was studied in various pathological conditions. It was found that the increase of sedoheptulose during the incubation occurs in erythrocytes of

54/45

CONT.

patients in whom a hyperactivity of suprarenals was brought about either through their hyperplasia (Cushing) or through the activation brought about pharmacologically (ACTH, salicyl, butylpyrine, etc.) or through the internal changes of neuro-humoral regulation of the organism (apoplexy, acute myocardial infarction, anox-aemia, diabetes in acidosis and in resistance to insulin). Similar results were obtained in haemoblastosis and carcinoma with the exception of strongly anaplastic carcinoma of the lung, where the values obtained were lower than in normal subjects. The lowering or absence of increase of sedoheptulose was observed in de-compensated diabetics without acidosis.

EXCERPIA MEDICA Sec.3 Vol.12/3 Endocrinology Mar 53

527. THE EFFECT OF CORTISONE ON THE OXIDATION CYCLE OF GLUCOSE-6-PHOSPHATE IN ERYTHROCYTES AND RAT LIVER - Die Wirkung von Cortison auf den Oxydationszyklus des Glukose-6-Phosphats in den Erythrozyten und der Rattenleber - Sonka J., Mirčevová L., Schreiber V., Dubovský J. and Palek J. III. Med. Klin. der Karls Univ. und Biochem. Lab., Prag, Tschechoslowakei - ENDOKRINOLOGIE 1957, 34/4 (209-212) Tables 3

This effect was studied in rats divided into 4 groups, viz: (I) a control group, (II) a group given cortisone, (III) an adrenalectomized group, and (IV) an adrenalectomized group given cortisone. The erythrocytes were incubated with D-glucose; the IVth group showed a maximal increase in pentose and sedoheptulose. D-ribose, too, was most rapidly broken down in this group by the liver homogenate. These facts suggest that the oxidation cycle of glucose-6-phosphate is activated by glucocorticosteroids.

KALOUSEK, Fr.; SONKA, J.

ACTH and pentose cycle in erythrocytes. Cas. lek. cesk. 96 no.33-34:
1070-1074 23 Aug 57.

1. III. interni klinika, prednosta akademik J. Charvat. F. K., Praha
2, U nemocnice 1.

(ACTH, eff.

on pentose cycle in erythrocytes in normal persons (Cz))
(ERYTHROCYTES, metab.

eff. of ACTH on pentose cycle in normal persons (Cz))
(PENTOSES,

eff. of ACTH on pentose cycle in erythrocytes in normal
persons (Cz))

KALOUSKOVA, J.; MRAZ, M.; SONKA, J.; TRINKER, L.

Erythrocyte glucose metabolism following chlorpromazine therapy. *Cesk. fysiol.* 7 no.3:260-261 May 58.

1. *farmakologicky ustanov KU, Praha, III. int. Klinika FVL, Praha.*
(CHLORPROMAZINE, eff.
on erythrocyte glucose content (Cz))
(BLOOD SUGAR, eff. of drugs on,
chlorpromazine (Cz))

STEPANOVSKY, Jaroslav, MUDr.; KALOUSKOVA, Jarmila, MUDr.; SONKA, Jiri, MUDr.;
KALOUSEK, Frantisek, MUDr.

Effect of labor on utilization of glucose in erythrocytes. Cesk. gyn.
22[37] no.1/2:136-139 Jan 58.

1. I. nor. klinika KU v Praze, vrednosta prof. Dr Karel Klaus. III. int.
klinika KU v Praze, vrednosta akademik Josef Charvat . J. S. Praha 2,
Avolinniska 18.

(BLOOD SUGAR, in pregn.

erythrocyte utilization in labor (Cz))

(LABOR, blood in

erythrocyte utilization of sugar (Cz))

(ERYTHROCYTES,

sugar utilization in labor (Cz))

SONKA, J.; MALINA, L.; SIAPOCH, F.

Effect of complex balneological therapy on carbohydrate metabolism
in obesity. Acta Universitatis Carolinæ - Medica 6:351-352 1959.

1. III. interni klinika fakulty všeobecného lekarství v Praze, pred-
nost, akademik J. Charvat Cs., statní lázně, Mariánské Lázně.
(BALNEOLOGY) (OBESITY) (CARBOHYDRATES, metab.)

SONKA, J.; KASparek, L.; KOHOUTEK, V.

Effect of antibiotics on sugar metabolism in human erythrocytes. Česk. fysiol.
8 no.2:125; passim. Mar 59.

l. II Interní klinika KU Praha. Přednesno 29.9. 1958 ve všeob. sekci cs.
lek. spol. J. E. Purkyne v Praze.

(ANTIBIOTICS, eff.
on erythrocyte sugar metab. (Cz))
(BLOOD SUGAR, eff. of drugs on,
antibiotics, on erythrocyte level (Cz))

SONKA, Jiri (Praha 2, U nemocnice 2)

Significance of the pentose cycle in medicine. Cas. lek. cesk. 98
no. 20:625-630 15 May 59.

1. III. interni klinika KU v Praze, prednosta akademik Josef Charvat.
Do. redakce doslo v zari 1958.

(PENTOSES

med. significance of pentose cycle, review (Cz))

SONKA, J.

The significance of the pentose cycle in medicine. Rev.Czech.M.
6 no.4:278-286 '60.

1. Third Medical Clinic, Charles University, Prague. Director:
Academician J. Charvat.
(PENTOSES)
(TISSUE METABOLISM)

FABRY, P.; PETRASEK, R.; KRULICH, L.; HOESCHL, R.; SONKA, J.; WAELSCH, J.H.

Effect of a temporary distribution of food intake on the nature
of nutritionally-induced adaptation changes. Cesk. fysiol. 9 no.1:
9-10 Ja 60.

1. Ustav pro vyzkum vyzivy lidu, Fysiologicky ustav lek. fak. KU
Vyzkumnny ustav endokrinologicky, III interni klinika lek. fak. KU
a Thomayerova nemocnice, Praha.
(ADAPTATION PHYSIOLOGICAL)
(HUNGER)

SONKA, J.

Clinical significance of the pentose cycle. Klin.med. 38
no.7:3-12 '60. (MIRA 13:12)
(PENTOSE)

SONKA, J.; LABOURKOVÁ, Z.; JANDA, J.

Oxygen utilization by the erythrocytes in clinical syndromes. Cas.
lek.cesk. 99 no.3/4:106-111 22 Ja '60.

1. III. interní klinika KU, prednosta akademik J. Charvat.
(OXYGEN blood)
(ERYTHROCYTES)

SONKA, J.; ZBIRKOVA, A.; KUBICKA, J.

The therapy of obesity by diet, fenmetrazin and muscular activity.
Acta univ. carol.[Med] no. 3:353-363 '61.

1. III interni klinika fakulty vseobecneho lekarstvi University Karlovy
v Praze, prednosta akademik J. Charvat Katedra telesne vychovy University
Karlov, vedouci J. Kozak, Ceskoslovenske statni lazne, Trebon, reditel
MUDr. J. Kubicka.

(OBESITY ther) (PHENMETRAZINE ther)
(EXERCISE THERAPY)

SONKA, J.

SURNAME (In caps); Given Names

Country: Czechoslovakia

(9)

Academic Degrees: [not given]

Affiliation:

Source: Erno, Vnitri Lekarstvi, Vol VII, No 8, August 1961, pp 910-915

Date: "Glycide Metabolism and Estrogenic Activity in Obesity."

Authors:

SKLENEROVA, B, Internal Clinic II of the Faculty of Medical Hygiene of Charles University (II vnitri klin LFV KU [Lekarska faculta hygienicka Karlovy university]), Prague; Chief (Prednosta): Prof MUDr Jiri Syllaba

SONKA, J., Internal Clinic III of the LFV [abbreviation not identified] of Charles University (III vnitri klin LFV KU), Prague; Chief (Prednosta): Academician Josef Charvat

STERDA, R, Research Institute of Natural Drugs (Vyzkumny ustav prirodnych lecitiv); Director (Roditel) Dr Zdenek Blatni C Sc

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PETRASEK, J.; SONKA, J.

Clinical physiology of peroral antidiabetics. Cas.lek.cesk 100
no.7:Lek Veda Zahr:25-33 17 F '61.

1. III. interni klinika KU v Praze, prednosta akademik Josef Charvat.

(ANTIDIABETICS pharmacol)

SONKA, J.; PETRASEK, J.

On regulations of fat metabolism and their relation to obesity. Cas.
Lek. Česk. 101 no. 6:179-184 9 F '62.

1. III interni klinika KU v Praze, prednosta akademik J. Charvat.

(FATS metabolism) (OBESITY metabolism)

SONKA, J.; P/ZOUTOVA, N.

Determination of insulin. Cas. lek. cesk. 101 no.46: Lek Veda Zahr:
225-232 '62.

1. Laborator pro endokrinologii a metabolismus pri III. interni
klinice fakulty vseobecneho lekarstvi KU v Praze, prednosta
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(INSULIN)

Sonka, J.

CZECHOSLOVAKIA

SONKA, J; ZBIRKOVA, A.

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metabolismus pri III. vnitrni klinice fakulty
vsobecneho lekarstvi KU), Prague (for both)

[Krajov]
Brno, Vnitrni lekarstvi, No 7, 1963, pp 656-660

"The Influence of Muscular Activity on Intermediate
Metabolism and Its Practical Use."

SOKA, Jiri; GREGORCVA, Inge

Dehydroepiandrosterone - a new approach to the pathogenesis of
obesity. Acta Univ. Carol [med.] (Praha) 9 no.1:89-98 '63

1. Laborator pro endokrinologii a metabolismus fakulty vse-
obecneho lekarstvi University Karlovy v Praze (vedouci aka-
demik Josef Charvat).

SONKA, J.; PETRASEK, J.; ZBIRKOVA, A.; SLABOCHOVA, Z.

Effect of reducing regimens on the excretion of 3-methoxy-4-hydroxymandelic acid (vanillymandelic acid). Cesk. gastroent. vyz. 17 no.7:430-434 N '63.

1. Laborator pro endokrinologii a metabolismus a III. interni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze; Katedra telesne vychovy Karlovy University v Praze, a Ustav pro vyzkum vyzivy lidu v Praze.

BIELICKY, T.; SONKA, J.; MALINA, L.

Effect of antimalarial drugs on activity of the pentose cycle
in human erythrocytes in vitro. Cesk. derm. 39 no.2:82-87
Ap'64.

1. Dermatologicka klinika lekarske fakulty hygienicke KU v Praze (prednosta: doc. dr. T.Bielicky, DrSc.) a Laborator pro endokrinologii a metabolizmus pri III. interni klinice fakulty vseobecneho lekarstvi KU v Praze (vedouci akademik J.Charvat).

*

SONKA, J.

Stress and energy metabolism. Cas. lek. cesk. 103 no.28:787-791
6 Jl '64

1. Laborator pro endokrinologii a metabolismus pri III. interni
klinice fakulty vseobecneho lekarstvi KU [Karlov University]
v Praze; reditel: akademik J. Charvat.